

M 5.4, 49 km E of Estique, Peru

Origin Time: 2022-05-24 12:57:58 UTC (Tue 07:57:58 local)
Location: 17.5203° S 69.5489° W Depth: 148.4 km

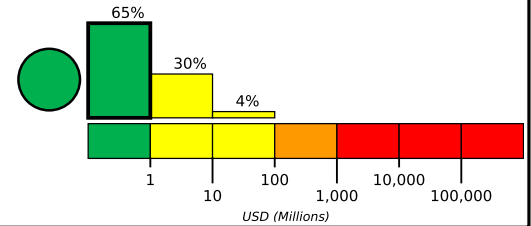
Created: 1 day, 10 hours after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.



Estimated Economic Losses

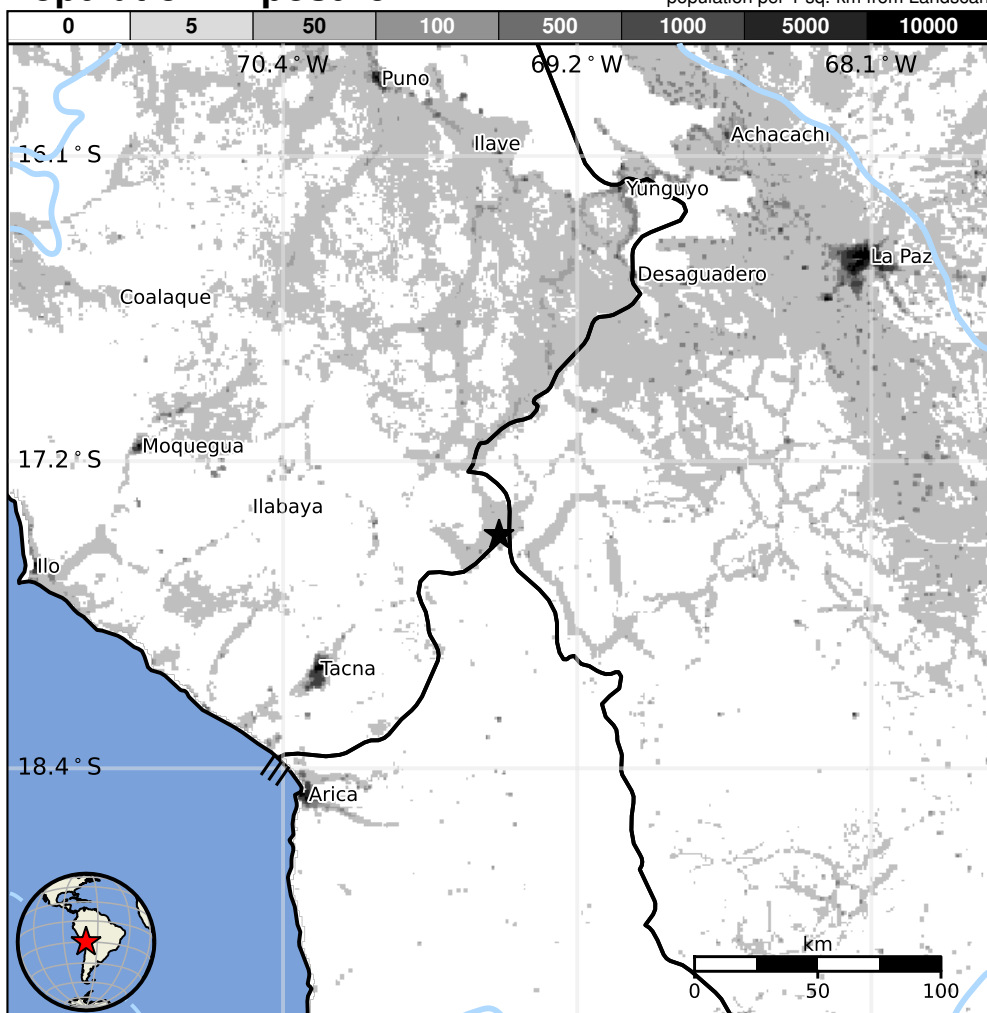


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	3,982k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are mud wall and reinforced/confined masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2001-07-24	228	6.3	V(36k)	1
2001-12-04	390	5.8	VI(32k)	2
1979-02-16	337	7.1	VIII(2k)	18

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
III	Chuquitira	4k
III	Mazo Cruz	<1k
III	Pocollay	<1k
III	Ticaco	<1k
III	Calana	1k
III	Tacna	280k
III	Arica	186k
III	Moquegua	55k
III	Ilo	53k
III	Puno	117k
III	La Paz	813k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us7000hc71#pager>

bold cities appear on map.

(k = x1000)

Event ID: us7000hc71